Panasonic®

2.4 GHz Portable Station

Operating Instructions

Model No. KX-TD7690

Thank you for purchasing the Panasonic KX-TD7690, 2.4 GHz Portable Station. Please read this manual carefully before using this product and save this manual for future use.

This manual is designed to be used with your Portable Station and a Panasonic KX-TDA series Business Telephone System.

Charge the battery for about 6 hours before initial use.

Document Version: 2006-02

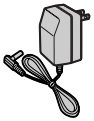
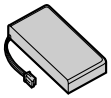
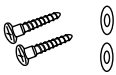
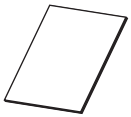
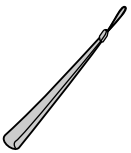
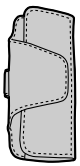
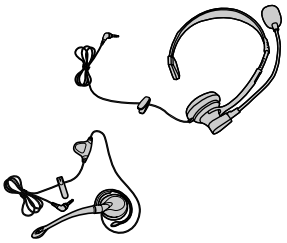
Before Initial Use

Please read "IMPORTANT SAFETY INSTRUCTIONS" on page 45 before use. Read and understand all instructions.

◆ *Registration*

Your Portable Station (PS) must be registered in the Business Telephone System and assigned an extension number before initial use.

◆ *Accessories (☐-included/ ■-optional)*

☐ Charger (ETYKM288SM) One	☐ AC adaptor (KX-TCA1)  One	☐ Battery (N4HUGLB00001)  One
☐ Screws and Washers  Two	☐ Operating Instructions  One	
☐ Strap  One	■ Carrying Case  Option	■ Headset *  Option

- For extra orders, call toll-free **1-800-332-5368**.
- * Please use only the Panasonic KX-TCA86/KX-TCA88/KX-TCA91/KX-TCA92 headset.

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Before Operating the PS

Location of Controls

TALK button:
Used to make or receive calls, or change the conversation mode (TALK/HANDS FREE/MONITOR MODE).

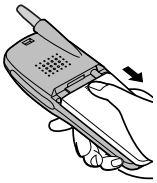
NAVIGATOR key:
Used to adjust the ringer/receiver volume or move the cursor to select a desired item.
To select an item, press the arrow repeatedly.

SOFT buttons:
Used to select the function displayed directly above each button. Functions displayed depend on the state of use.

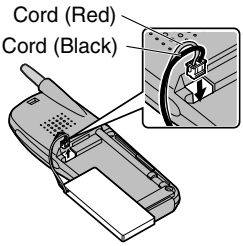
CANCEL/POWER button:
Used to end calls, exit the Directory or Function mode, or turn on/off the PS.

Setting Up

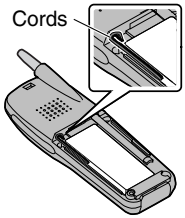
1 Open the battery cover.



2 Connect the cord and install the battery.



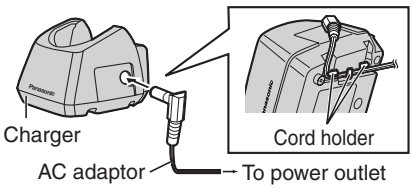
3 Close the cover.



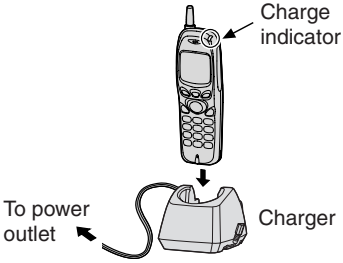
- Insert the battery cord into the groove next to the battery to prevent the battery cover from pinching it.

Charging

1 Connect the charger to a power outlet using the AC adaptor.



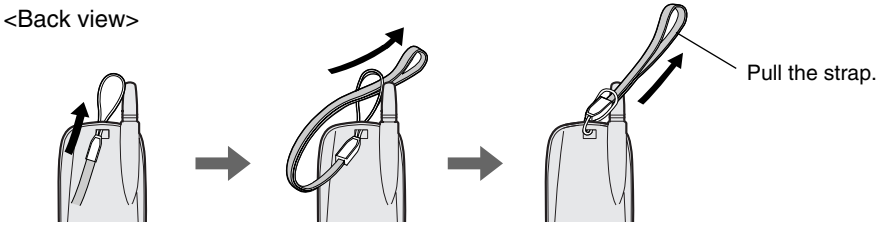
2 Charge the battery for about 6 hours.



- When the battery has been completely charged, the charge indicator will change from red to green. Refer to “Battery Information” on page 44.
- It is normal for the PS and charger to get warm while the battery is charging.
- Keep devices sensitive to magnetic fields away from the charger.

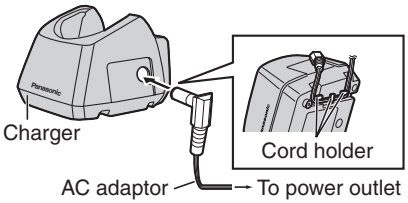
Before Operating the PS

Attaching a Strap to PS

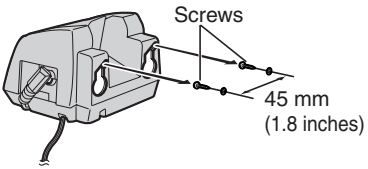


Wall Mounting

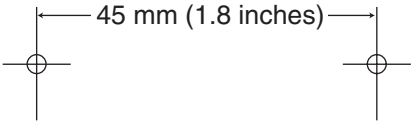
1 Connect the AC adaptor to the charger.



2 Drive the included screws into the wall using the wall template below.



3 Mount the charger securely on the screws.



Power On/Off

Power On

Press **POWER** for about 2 seconds, and "KX-TD7690" will be displayed.

Power Off

Press **POWER** for about 2 seconds. The display will go blank.

- When the PS is turned on, it will be in standby mode. Standby mode is the state of the PS when it is not performing any operations and is awaiting calls.

Signal Search

You can search for the strongest Cell Station for your PS while it is in standby mode.

Press **S1**.

Press **TALK.**

<Display>

SEARCHING → SEARCH OK

Locking the Keypads

You can lock the dialing buttons while the PS is in idle status.

Press **S1** for about 2 seconds.

<Display>

To lock

HOLD DOWN TO LOCK KEYPAD → Jan.31 10:50AM [1-301] MENU KEY LOCK

To unlock

HOLD DOWN TO UNLOCK KEYPAD → Jan.31 10:50AM [1-301] MENU KEY F-CO

Display

<Radio Signal Strength>

Strong

Weak

Out of range

<Off-hook Status>

<Off-hook Status for Intercom calls>

<PS Programming Mode>

<Incoming Call Log notification>

<Message Waiting>

When you receive a message while in standby mode, the PS will alert you by vibrating or ringing, depending on the current setting of the Ringer Volume.

<Navigator>

When using the navigator key, only the displayed arrows can be pressed.

<Battery Strength>

Full

Low

Needs to be charged.

<Others>

Ringer ON & Vibration OFF

Ringer ON & Vibration ON

Ringer OFF & Vibration ON

Ringer OFF & Vibration OFF

Meeting mode

Fwd Call Forwarding

DND Do not disturb

(MENU) (KEY) (F-CO) <Soft Key Display>

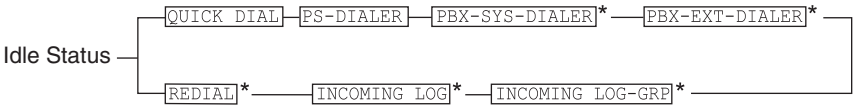
The icons displayed above each soft button indicate what functions the soft buttons perform. Functions displayed depend on the state of use. Press the corresponding soft button to select a function.

- (MENU) : Displays the menu. Also used to lock/unlock the keypad by pressing for about 2 seconds.
- (KEY) : Displays the key list.
- (F-CO) : Displays the flexible-CO key list.
- (HOLD) : Places a call on hold.
- (XFER) : Used to transfer a call to another party.
- (FLSH) : Answers Call Waiting from the telephone company.
- (SLNT) : Turns the ringer and vibration off while receiving a call.
- (NEXT) : Shows the next display.
- (PREV) : Shows the previous display.
- (BACK) : Returns to the previous display.
- (SEL) : Selects the highlighted item.
- (CHNG) : Allows you to change the current setting.
- (CLR) : Clears digits or characters.
- (ENTR) : Stores the entered setting.
- (EDIT) : Displays the edit mode.
- (DEL) : Deletes the highlighted item.
- (NEW) : Used to store a new item in the PS dialing directory.
- (DISP) : Changes the Quick Dial display.
- (PAUS) : Inserts a dialing pause.
- (ABC) : Displayed when in (ABC) character entry mode, shown in table 1 on page 28. Press to switch to (+ADD) mode.
- (+ADD) : Displayed when in (+ADD) character entry mode, shown in table 2 on page 29. Press to switch to (ABC) mode.
- (KEY LOCK) : Displayed when key lock is activated.
- (EXIT) : Exits PBX programming mode.

Operation Outline

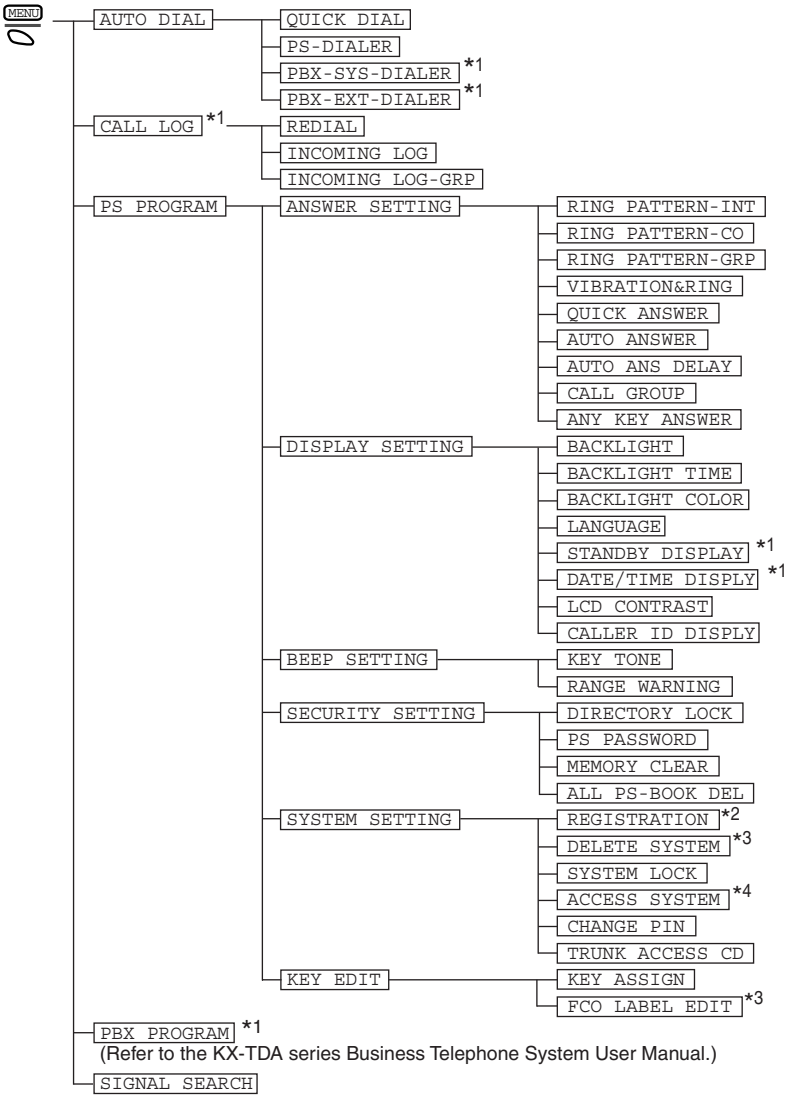
Functions of the PS are accessed through the display menu, and selected with the navigator key and soft buttons.

Navigator key operation



•* Displayed only when " " is shown on your PS.

◆*MENU key operation*



- *1 Displayed only when " Y " is shown on your PS.
- *2 Not displayed when your PS is registered in four Business Telephone Systems.
- *3 Displayed only when the PS is registered to at least one Business Telephone System.
- *4 Displayed only when the PS is registered to more than one Business Telephone System.

Key Menu

Press KEY to display the key list. The key list can be edited to suit your needs. Below is a description of each key and its default key number.

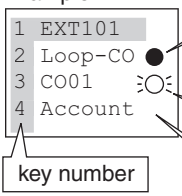
Key no. (default)	Key	Description
1	INTERCOM	Used to make or receive intercom calls.*
2	CONFERENCE	Used to establish a multiple-party conversation.
3	FLASH(RECALL)	Disconnects a current call, allowing you to make another call without hanging up.
4	MESSAGE	Used to leave a message to the called party or call back the message sender.
5	Fwd/DND Both	Used to set the Call Forwarding or Do Not Disturb features.
6	AUTO ANSWER	Used to answer an incoming call automatically.
7	F-CO	Used to show the F-CO key list.
8	HOLD	Places a call on hold.
	PAUSE	Inserts a dialing pause.
	TRANSFER	Used to transfer a call to another party.

- You can change the key menu assignment. (See page 41.)
- You can select a key directly by pressing the key number.
- * When accessing the key list, an icon indicating the status of the INTERCOM will be displayed, if active. See “Understanding the F-CO Key List” for a description of the icons. (See page 12.) If the PS is out of range, or if the Cell Station (CS) is busy, the PS cannot handle calls and “?” will be displayed.
- If the PS is not operated for 5 seconds, the display returns to the previous display.

Flexible-CO Key List

The F-CO key can be used to seize an idle outside line while making or receiving an outside call, or used as a feature button. Press the F-CO soft button or select "F-CO" from the key menu to display the flexible CO key list. Here you can access the 12 flexible CO keys. Icons shown in the F-CO list function similarly to the light (LED) pattern on a Proprietary Telephone. ● is the same as a green LED, and ○ is the same as a red LED.

Example:



Understanding the F-CO Key List*

- ● (on): You are currently using this line.
- ☼● (flashing rapidly): You have an incoming call on this line.
- ☼● (flashing slowly): You have a call on hold on this line.
- ○ (on): This line is in use by someone else.
- ☼○ (flashing rapidly): There is an incoming call received by an incoming call distribution group to which "Ring" is set as the group call distribution method.
- ☼○ (flashing slowly): Someone has a call on hold on this line.
- (no icon): This line is idle.

- * The meanings of these icons vary depending on the status of the CO line.
- For further information, refer to "LED Indication" in the KX-TDA series Business Telephone System Feature Guide.
- To select a key, press its key number, or press ◄► to highlight the desired key then press SEL. The following keys can also be selected by pressing ↷: `Single Line, Trunk Group, Loop Line, EXT, GDN, One-Touch`
- The F-CO label can be changed. (See page 41.)
- If no buttons are pressed for 5 seconds, the display returns to the previous display.

Ringer Volume Adjustment

While in standby mode or receiving a call, press ◎ repeatedly. (Default : ▂▄■ high)

Button	Ringer Volume	Display	Icon
↑◎ ↓◎	High	RINGER ▂▄■	
	Medium	RINGER ▂▄□	
	Low	RINGER ▂▭□	
	Gradually louder • Low→Medium→High	RINGER STEP UP	
	Gradually quieter • High→Medium→Low	RINGER STEP DOWN	
	Vibration only	VIBRATION ON RINGER OFF	
	• Vibration only • Key tone off • Microphone volume high	MEETING MODE	
◎ ◎	Key tone only	VIBRATION OFF RINGER OFF	

- Press ◎ for about 1 second to change from "MEETING MODE" to "VIBRATION OFF/RINGER OFF".
- If Key Tone is set to "OFF", the ring tone does not sound while adjusting the volume. (See page 39.)
- The PS rings for incoming calls while charging (except in "MEETING MODE" and "VIBRATION OFF/RINGER OFF").
- When pressing ◎ in standby mode to change the current ringer setting, the ringer will not sound. This allows you to turn the ringer off without making any noise.
- The ringer can be set to both vibrate and ring. (See page 35.)

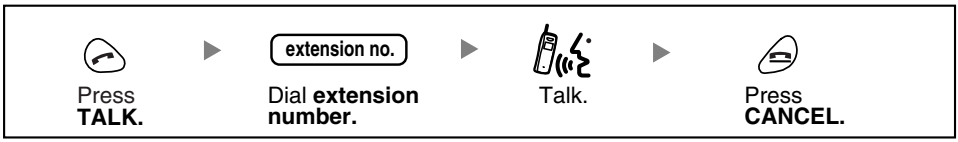
Receiver Volume Adjustment

During a conversation or when off-hook, press ◎ repeatedly. (Default : ▂▄▭□ medium)

Button	Receiver Volume	Display	
		Talk	Hands-free/Monitor
↑◎ ↓◎	Extra High	RECEIVER ▂▄■	SP-PHONE ▂▄■
	High	RECEIVER ▂▄■□	SP-PHONE ▂▄■□
	Medium	RECEIVER ▂▄▭□	SP-PHONE ▂▄▭□
	Low	RECEIVER ▂▭▭□	SP-PHONE ▂▭▭□

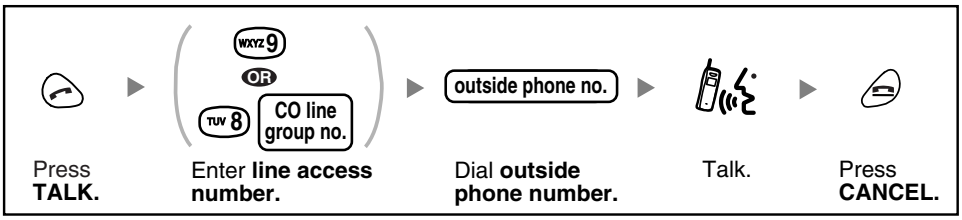
Making Calls

Calling Another Extension

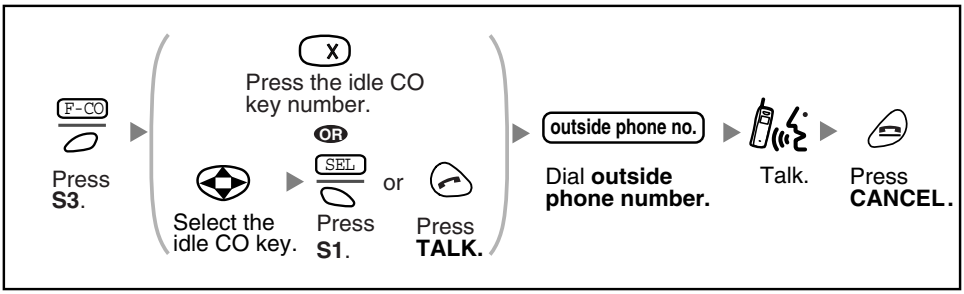


Calling an Outside Party

Using the line access numbers



Using Flexible CO keys

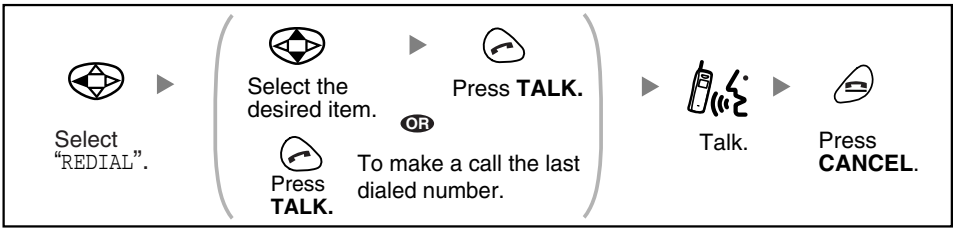


- You can confirm a number before calling (**Predialing**) by entering the number, then pressing .
- If you misdial while predialing, press to highlight the wrong digit and press CLR, then enter the correct digit.
- To clear an entire number while predialing, press and hold CLR.
- If " " flashes, move closer to the Cell Station and try dialing again.
- To cancel dialing, press .

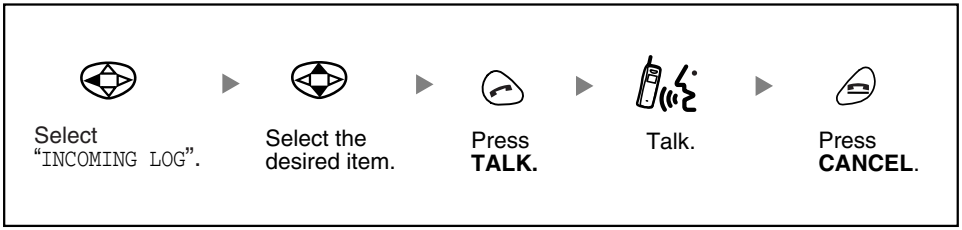
Using the Call Log

Feature	Display	Description
Outgoing Call Log	REDIAL	You can make a call using the phone numbers you have dialed.
Incoming Call Log	INCOMING LOG	You can make a call using the outside phone numbers you have received.
Incoming Call Log Group	INCOMING LOG-GRP	You can make a call using the phone numbers that incoming call distribution groups have received.

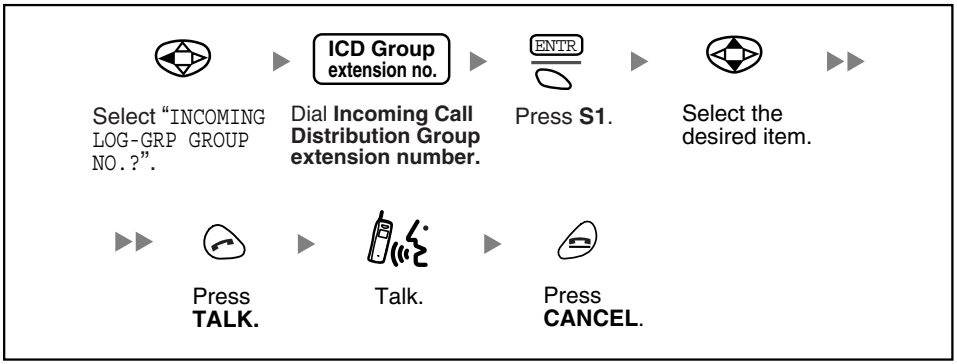
Using the outgoing call log



Using the incoming call log



◆ *Using the incoming call log group*

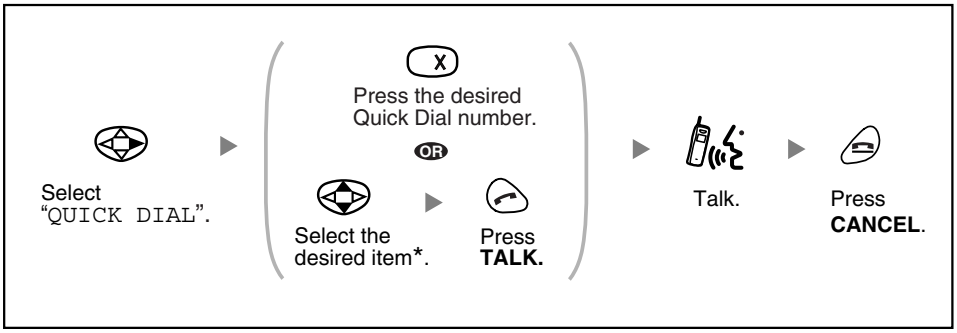


• An outside number stored with a name in the PS dialing directory will be displayed by number and name in the call log.

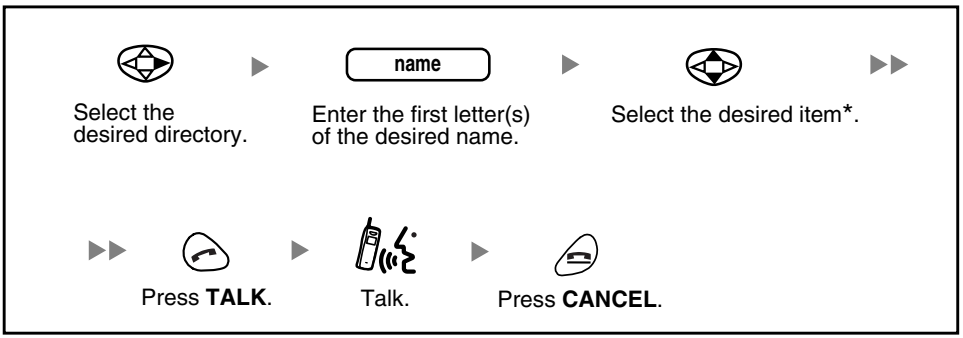
◆◆ *Making Calls Using the Directories*

Feature	Display	Description
Quick Dialing	QUICK DIAL	You can make a call simply by pressing the preprogrammed number for quick dialing.
PS Dialing Directory	PS-DIALER	You can make a call using the numbers stored in the PS Dialing Directory.
System Speed Dialing Directory	PBX-SYS-DIALER	You can make a call using the numbers stored in the Business Telephone System.
Extension Number Directory	PBX-EXT-DIALER	You can make a call using the extension names stored in the Business Telephone System.

◆ *Quick Dialing*



◆ *PS Dialing Directory/System Speed Dialing Directory/Extension Number Directory*



- * You can search for the desired item quickly by pressing and holding ◆ (**Quick Search: used for Quick Dialing and PS Dialing Directory**).
- To enter characters, see pages 28 and 29.
- You can also store names and phone numbers for Quick Dialing. (See page 22.)

Intercom Calls/Outside Calls/Group Calls

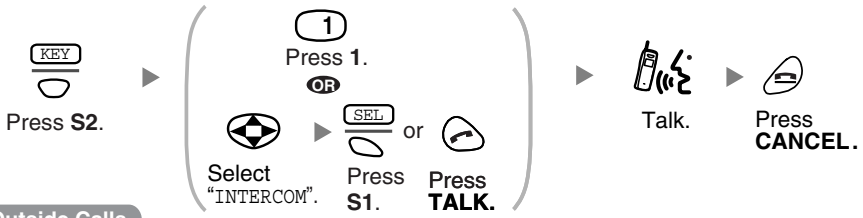
While receiving a call

Intercom Calls/Outside Calls/Group Calls

To answer a call when the PS is ringing

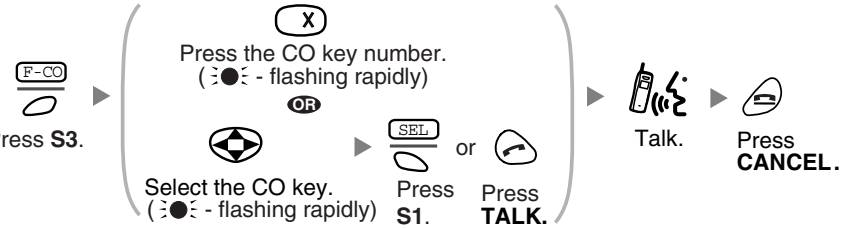
Intercom Calls

To answer a call on a specific line



Outside Calls

To answer a call on a specific line



- You can also answer a call as follows:
  - **–Any Key Answer** (See page 37.)
  - **–Auto Answer** (See page 35.)
  - **–Quick Answer** (See page 35.)
- When you receive an outside call, the caller's information is recorded automatically in the incoming call log even when the PS is off-hook, out of range, or when the nearest Cell Station is busy.

Incoming Call Notification

• You can select a different Ringer and Vibration pattern for each type of incoming call:

Incoming Call Status	LED Indication	Ringer Pattern	Vibration Pattern
Intercom call	flashing green	6 ringer tones, 4 melodies (See page 35.)	3 patterns (See page 35.)
Outside line call	flashing red		
Group call*	flashing orange		

* Group calls are calls received by a PS extension which is assigned to a:
  – PS ring group
  – Incoming Call Distribution Group in which “Ring” is set as the group call distribution method

Caller ID Display

• If an incoming call contains Caller ID information (the caller’s name and number), the caller can be displayed on the PS in one of the two following ways.
– If the caller’s information is stored in the Business Telephone System, that information can be displayed.
– If the caller’s information is stored in the PS, that information can be displayed.
• If information is stored in both the system and in the PS for the same caller, you can choose which information will be displayed on the PS. The default setting displays caller information stored in the system. (See page 39.) When receiving a call, you can toggle between the two settings by pressing (*).
  To display caller information, a line access number must be stored. (See “TRUNK ACCESS CD” on page 40.)
• To display caller information stored in the PS directory, an outside line number must be stored with the caller’s phone number, and the phone number must only contain digits (0-9).

Incoming Call Identification

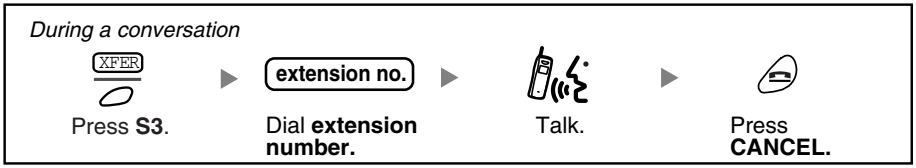
• Items stored in the PS dialing directory can be organized into one of 10 groups. A call from someone stored in one of these groups will be indicated by the pattern of ringer, LED, vibration, and LCD backlight color settings for the group. (See page 36.)

Item	Setting
RING PATTERN	6 ringer tones, 4 melodies (See page 36.)
LED PATTERN	9 patterns (See page 36.)
VIB PATTERN	5 patterns (See page 36.)
LCD BACKLIGHT	Orange or Green (See page 36.)

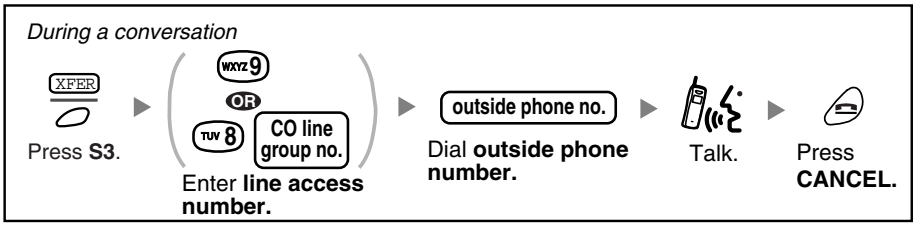
During a Conversation

Transferring a Call

Transferring to an extension



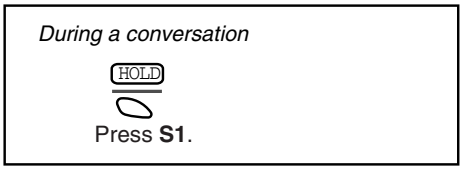
Transferring to an outside party



- To return to the call before the destination answers, select the "TRANSFER" key/ "INTERCOM" key/the corresponding CO key.

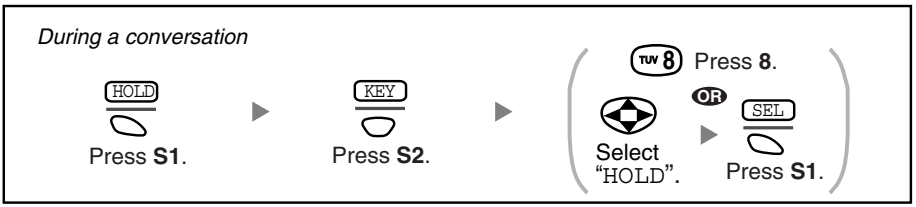
Holding

To hold (Regular Hold)



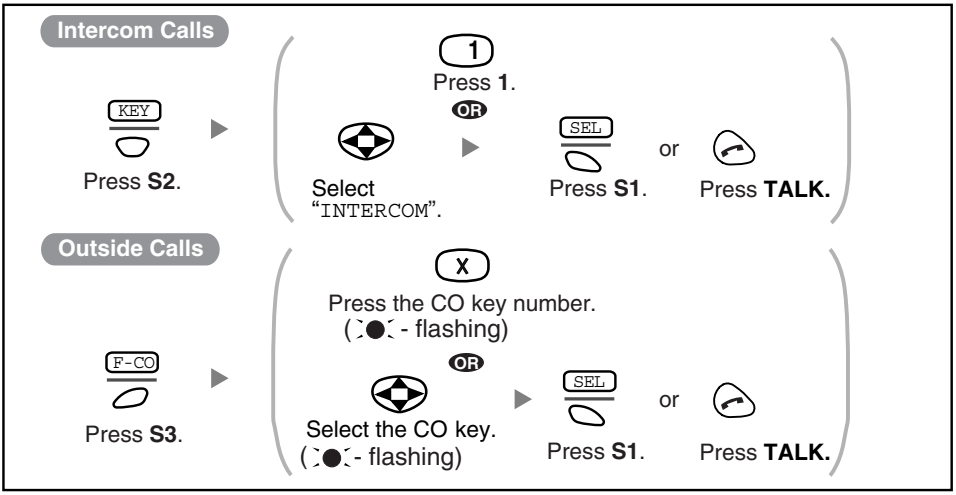
To hold (Exclusive Call Hold)

You can hold a call exclusively so that other people cannot retrieve the call.



- The operation depends on the Call Hold mode (Regular Hold/Exclusive Call Hold). Ask your manager what the current mode is.
- When you hold several outside line calls, assign the CO buttons (Single Line/Trunk Group/Loop Line/GDN) as necessary, beforehand.

◆ *To retrieve a call*



◆◆ *Hands-free/Monitor Conversation*

Feature	Display	Description
Hands-free*	HANDS FREE	You can talk with the calling party alternately through the speaker without holding the PS.
Monitor	MONITOR MODE	You can listen to the calling party's voice through the speaker without holding the PS. Your voice will not be heard.

Press **TALK** repeatedly to select the desired mode (**Hands-free/Monitor/Talk**).

<Display>

HANDS FREE → MONITOR MODE → TALK

- * For best performance in hands-free mode, please note the followings:
  - Talk alternately with the other party in a quiet room.
  - If you or the other party has hearing difficulty, press ◈ to decrease the speaker volume.
- The receiver volume level can be adjusted separately. (See page 13.)
- If you connect a headset while in hands-free/monitor conversation, the mode will be canceled automatically.
- If you put the PS on the charger during a conversation, the call will be disconnected, except when having a hands-free or monitor call.

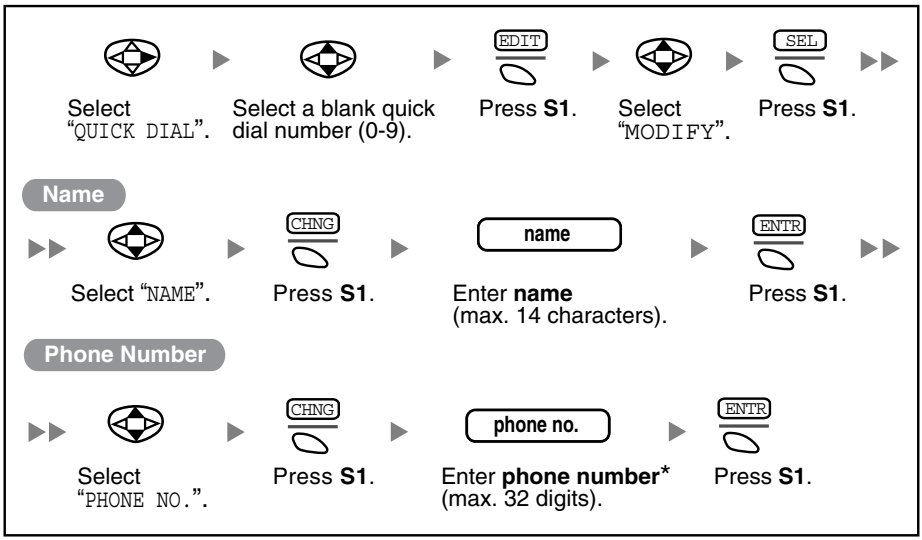
Using the Directories

Directories

Feature	Display	Description
Quick Dialing	QUICK DIAL	You can store names and phone numbers, as well as system feature names and numbers for easy access. (Max. 10 items.)
PS Dialing Directory	PS-DIALER	You can store up to 100 names, phone numbers and group numbers in the PS. If you store an outside party's number, you should first store a line access number. All directory items are stored in alphabetical order.

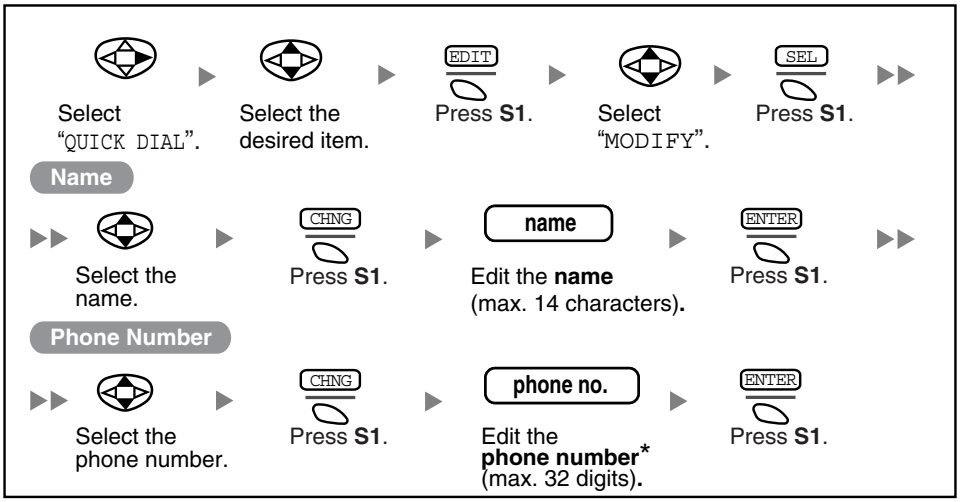
Quick Dialing

Storing



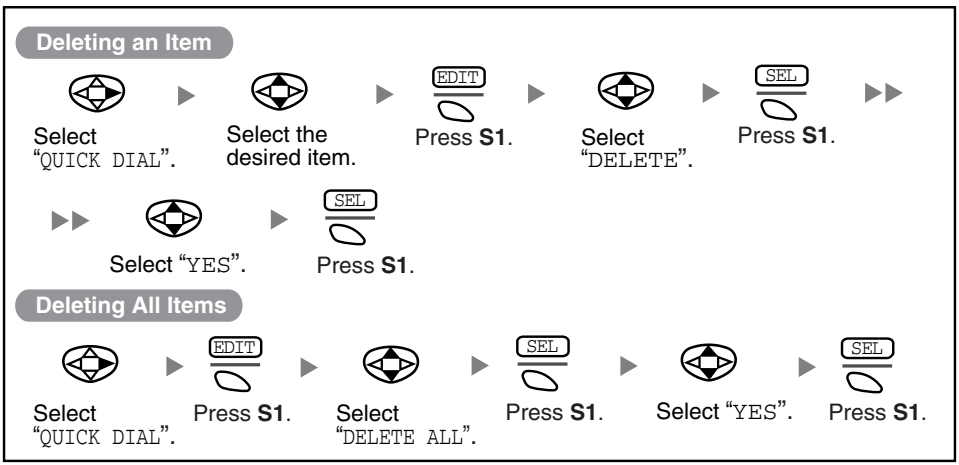
- To enter characters, refer to page 28 and 29.
- * The valid digits are "0" through "9", " ✳ ", "#", PAUSE and "X" (TALK). The "X" can be entered numbers you want when dialing.

◆ *Editing*



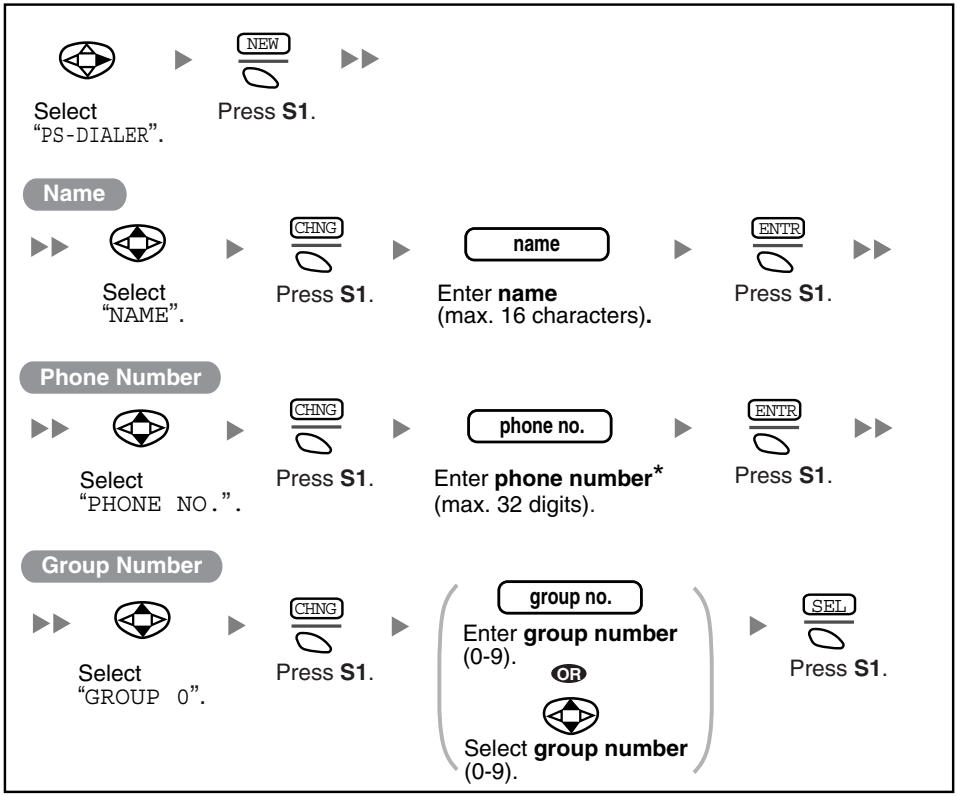
- To enter characters, refer to pages 28 and 29.
- * The valid digits are "0" through "9", " ✳ ", "#", PAUSE and "X" (TALK). The "X" can be entered numbers you want when dialing.
- To change a character or digit, press ◀▶ to highlight it, press CLR to delete it, then enter the new character or digit.
- To clear an entire line, press and hold CLR.
- To move the cursor to the left or right, press ◀ or ▶, respectively.

◆ *Deleting*



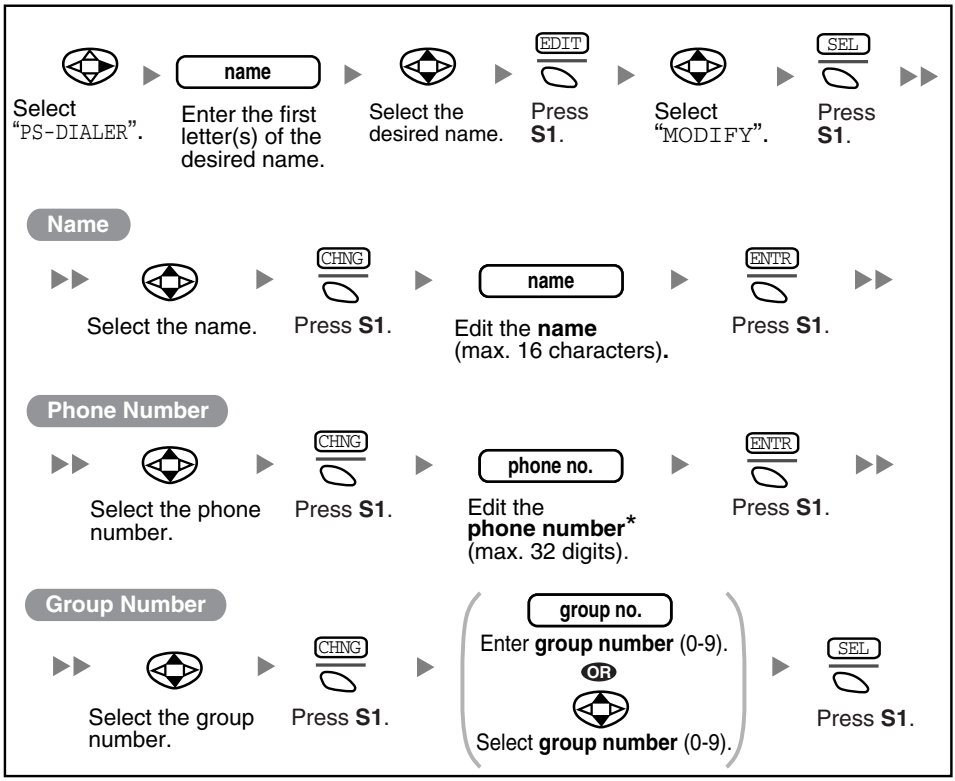
PS Dialing Directory

Storing



- To enter characters, refer to pages 28 and 29.
- * The valid digits are "0" through "9", "✳", "#", PAUSE.
- If you store an outside phone number, you should first store a line access number in front of the phone number.

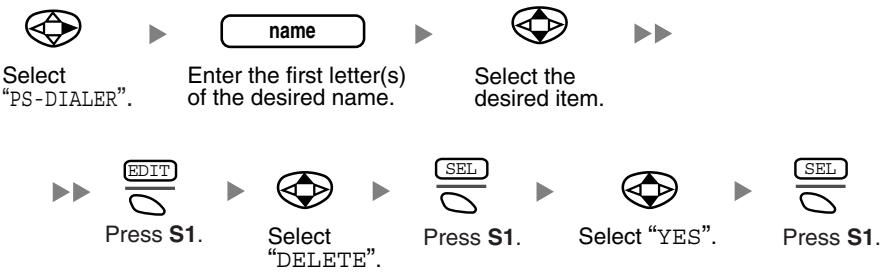
◆ *Editing*



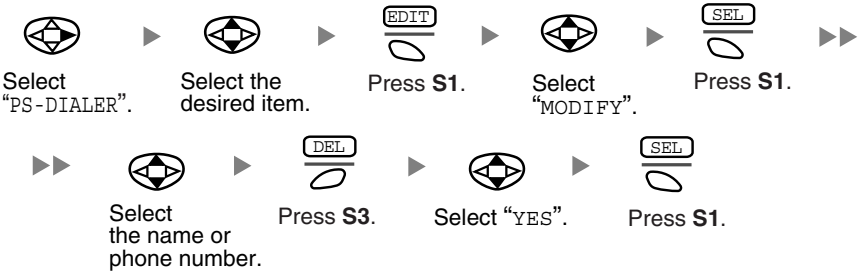
- To enter characters, refer to pages 28 and 29.
- * The valid digits are "0" through "9", "✳", "#", PAUSE.
- To change a character or digit, press ◀▶ to highlight it, press CLR to delete it, then enter the new character or digit.
- To clear an entire line, press and hold CLR.
- To move the cursor to the left or right, press ◀ or ▶, respectively.

◆ Deleting

Deleting an Item



Deleting the name or phone number



• You can delete all items at once. (See page 40.)

◆ *Storing an item for PS Dialing Directory*

Using the Outgoing Call Log

Select "REDIAL". ▶ Select the desired item. ▶ Press **S1**. ▶ Select "COPY TO PS BOOK". ▶ Press **S1**.

Using the Speed Dialing Directory

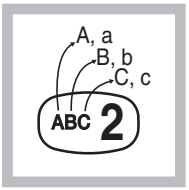
Select "PBX-SYS-DIALER". ▶ Enter a few of the first letters of the desired name. ▶ Select the desired item. ▶ Press **S1**. ▶▶ Select "COPY TO PS BOOK". ▶ Press **S1**.

- When storing an outside phone number, the line access number will be stored automatically. The line access number must be identical to the PS's "TRUNK ACCESS CD" setting (SYSTEM SETTING). (See page 40.)

Entering Characters

You can enter characters and digits using the dialing buttons. Pressing a dialing button repeatedly displays different characters as shown in the following tables.

To toggle between the two tables, press ABC or +ÄÖÜ at any time while you are entering characters.



Character mode table

Table 1 (ABC)

Times / Buttons	1	2	3	4	5	6	7	8	9
1	!	?	"	1					
2	A	B	C	a	b	c	2		
3	D	E	F	d	e	f	3		
4	G	H	I	g	h	i	4		
5	J	K	L	j	k	l	5		
6	M	N	O	m	n	o	6		
7	P	Q	R	S	p	q	r	s	7
8	T	U	V	t	u	v	8		
9	W	X	Y	Z	w	x	y	z	9
0	(space)	.	,	'	:	;	0		
*	/	+	–	=	<	>	*		
#	$	%	&	@	(	)	€	£	#

For example, to enter “Anne”:

A	n	n	e
ABC 2	MNO 6 (5 times)	◀▶ MNO 6 (5 times)	DEF 3 (5 times)

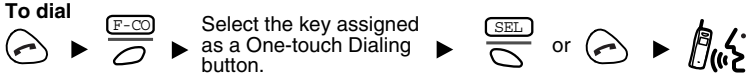
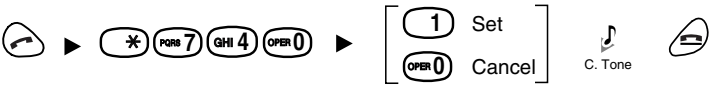
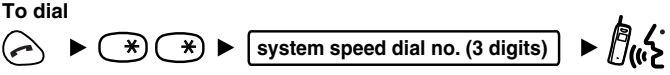
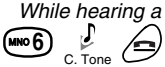
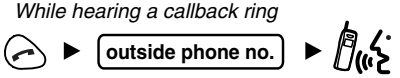
Table 2 (+ÄÖÜ)

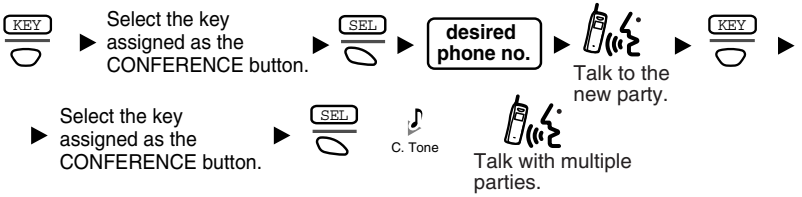
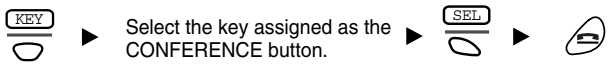
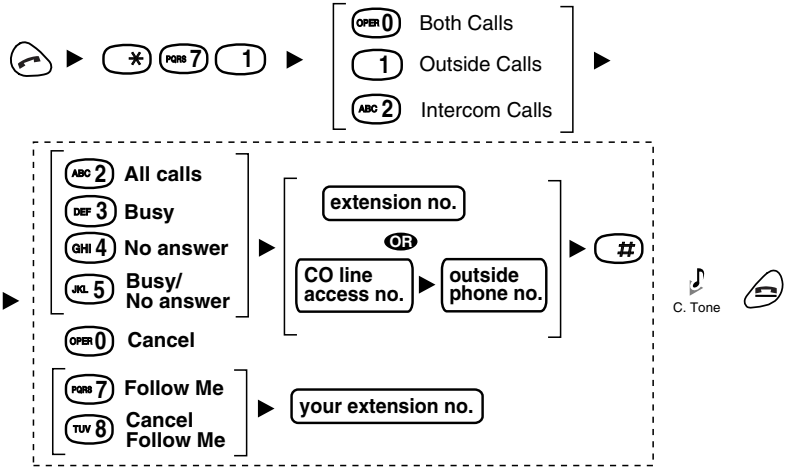
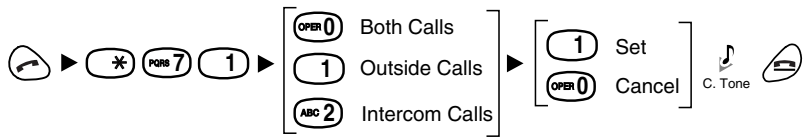
Times / Buttons	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	!	?	"	ä	ö	ü	1								
2	A	B	C	a	b	c	À	Á	Â	Ã	Ä	Å	Æ	Ç	2
3	D	E	F	d	e	f	Đ	È	É	Ê	Ë	3			
4	G	H	I	g	h	i	Ì	Í	Î	Ï	4				
5	J	K	L	j	k	l	5								
6	M	N	O	m	n	o	Ñ	Ò	Ó	Ô	Õ	Ö	Ø	Œ	6
7	P	Q	R	S	p	q	r	s	ß	7					
8	T	U	V	t	u	v	Ù	Ú	Û	Ü	8				
9	W	X	Y	Z	w	x	y	z	ý	9					
0	(space)	.	,	'	:	;	0								
*	/	+	–	=	<	>	*								
#	$	%	&	@	(	)	€	£	#						

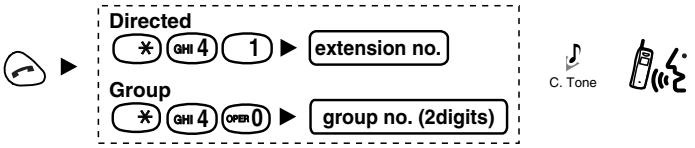
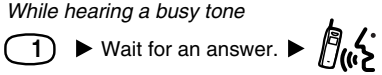
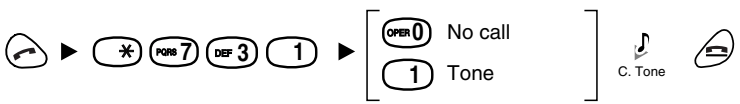
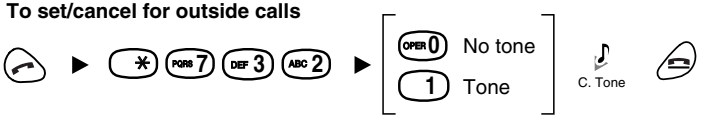
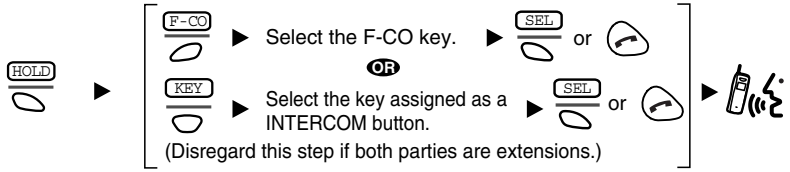
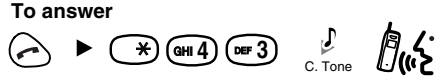
- To enter a character located on the same dialing button as the previous character, move the cursor by pressing ◄►, then enter the desired character.
- If you enter a different character by mistake, press ◄► to highlight the character, press CLR to delete it, then enter the correct character.
- To clear an entire line, press and hold CLR.
- To move the cursor to the left or right, press ◄ or ►, respectively.

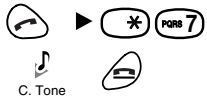
Other Operations

C. Tone: Confirmation Tone D. Tone: Dial Tone R.B. Tone: Ringback Tone
ICD Group: Incoming Call Distribution Group PIN: Personal Identification Number

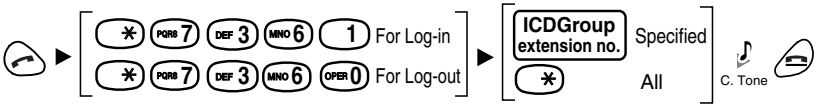
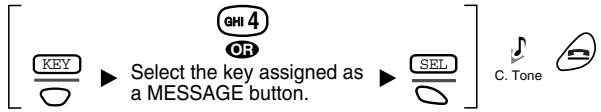
Feature	Operation
Making Calls	
One-touch Dialing	**To dial**  **To store**
Hot Line	**To store** **To set/cancel**  **To dial**
Operator Call	
System Speed Dialing	**To dial** 
Doorphone Call	
Automatic Callback Busy	**To set** *While hearing a busy tone*  **To cancel** **To answer from an idle extension** *While hearing a callback ring* **To answer from an idle outside line** *While hearing a callback ring* 

<table>
<tr><th>Feature</th><th>Operation</th></tr>
<tr><td colspan="2">During a Conversation</td></tr>
<tr><td rowspan="2">Multiple Party Conversation</td><td>To add other parties during a conversation
 
</td></tr>
<tr><td>To leave a conference
 
</td></tr>
<tr><td colspan="2">Useful Features</td></tr>
<tr><td>Call Forwarding</td><td> 
</td></tr>
<tr><td>Do Not Disturb</td><td> 
</td></tr>
</table>

Feature	Operation
	Useful Features
Call Pickup	
Sending a Call Waiting Tone	*While hearing a busy tone* 
Call Waiting	**To set/cancel for intercom calls** 
	To set/cancel for outside calls 
	To talk to the second party *While hearing a tone* 
Paging	**To page** ▶ Wait for an answer. ▶
	To answer 

<table>
<tr><th>Feature</th><th colspan="2">Operation</th></tr>
<tr><td colspan="3">Useful Features</td></tr>
<tr><td>Absent Message</td><td colspan="2">To set
 

To cancel

</td></tr>
<tr><td>Log-in/ Log-out</td><td colspan="2"> 
</td></tr>
<tr><td>Extension Setting Clear</td><td colspan="2">
</td></tr>
<tr><td rowspan="2">Message Waiting</td><td>Caller</td><td>To leave a message waiting indication
When the called extension is busy or does not answer
 

To cancel a message waiting indication

</td></tr>
<tr><td>Called extension</td><td>To call back

</td></tr>
<tr><td>Extension Lock*</td><td colspan="2">To lock

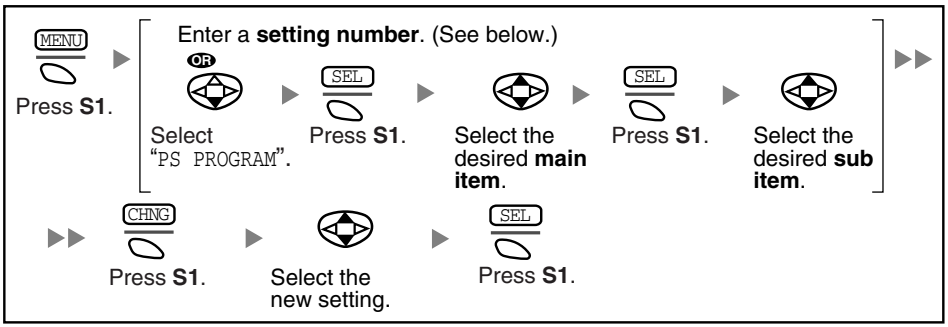
To unlock

</td></tr>
</table>

- * If an extension PIN has not been set for the PS, the extension cannot be locked. (Refer to the Business Telephone System User Manual)
- For further information, refer to the Business Telephone System User Manual.

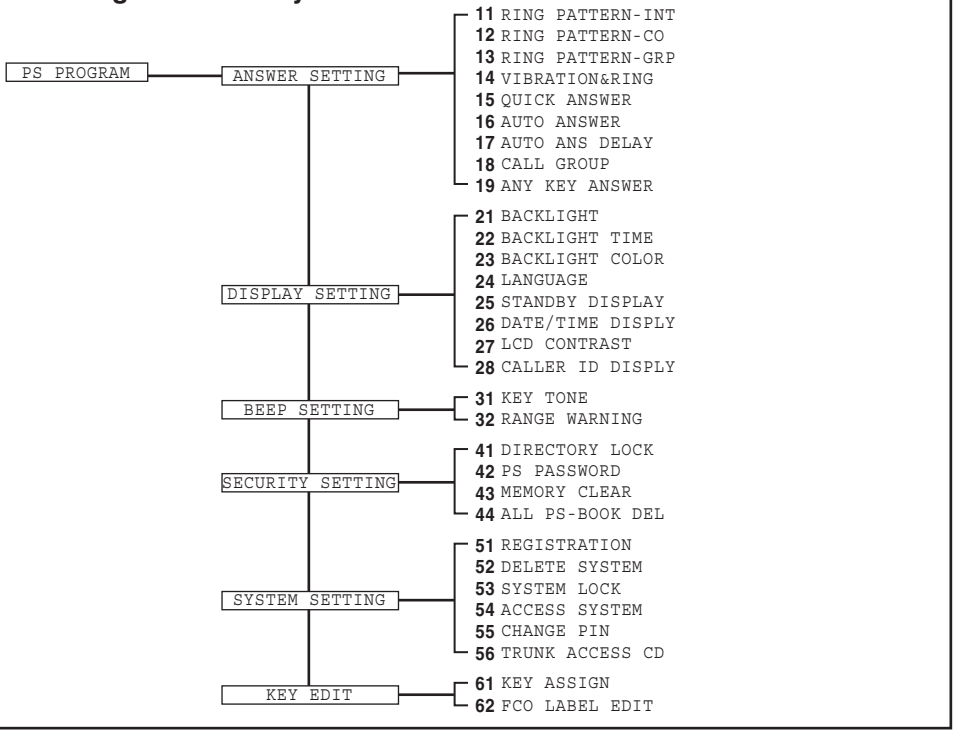
Changing the Initial Settings

You can customize the PS by editing the settings found under "PS PROGRAM" in the menu list, as follows:



- To return to the previous menu, press BACK.
- To cancel, press C at any time.
- The unit will beep to indicate that the new settings have been saved.

PS Program Menu Layout



Main Item	Sub Item	Description	Setting*	Setting no.
ANSWER SETTING	RING PATTERN-INT	Select the ringer type for each type of call (intercom, outside, and group). 6 ringer tones and 4 melodies are available.	☐ Ringer Pattern no.	11
	RING PATTERN-CO			12
	RING PATTERN-GRP		☐ **Ringer Pattern 1** (Bell 1)	13
	VIBRATION&RING	Select whether to have the PS vibrate when ringing.	☐ **OFF**	14
			☐ Ring&VIB (Ring and vibrate at the same time)	
			☐ VIB→RING (Vibrate for 5 seconds then ring)	
	QUICK ANSWER	You can answer a call by just lifting the PS off the charger.	☐ ON	15
			☐ **OFF**	
	AUTO ANSWER	Select the type of calls to be automatically answered when AUTO ANSWER is turned on. (See page 11.)	☐ **INT ONLY** (Intercom calls only)	16
			☐ INT/CO (All calls)	

* The default setting is shown here in gray.

Main Item	Sub Item	Description	Setting*	Setting no.
ANSWER SETTING	AUTO ANS DELAY	Select the number of seconds (6-20 sec.) before a call is automatically answered, when AUTO ANSWER is turned on.	☐ **6 s**	17
			☐ _ s	
	CALL GROUP	You can set the ringer, LED, vibration, and display backlight for calls from someone stored in one of groups. A group's settings can also be returned to the default. Press ◆ to select a group, then press SEL. The following five items will be displayed.	☐ Select a group (0-9)	18
	RING PATTERN	Select a ring pattern for the group selected above. When set to CO/GRP-PATTERN, the ringer chosen in RING PATTERN-CO (setting number 12) will be used.	☐ **CO/GRP-PATTERN**	
			☐ Ringer Pattern no.	
	LED PATTERN	Select an LED pattern for the group selected above. When set to CO/GRP-BLINK, the LED will light as shown on page 19.	☐ **CO/GRP-BLINK**	
			☐ LED Pattern no.	
	VIB PATTERN	Select a vibration pattern for the group selected above.	☐ **SINGLE**	
			☐ Vibration Pattern no.	
	LCD BACKLIGHT	Select an LCD backlight color for the group selected above.	☐ ORANGE	
			☐ **GREEN**	
	ORIGINAL SETTING	Returns the ringer, LED, vibration, and display backlight settings for the group selected above to the default settings.	☐ NO	
			☐ YES	

* The default setting is shown here in gray.

Main Item	Sub Item	Description	Setting*	Setting no.
ANSWER SETTING	ANY KEY ANSWER	When set to ON, allows you to answer a call by pressing any dial button (0-9, *, #).	☐ ON	19
			☐ **OFF**	
DISPLAY SETTING	BACKLIGHT	Select whether or not the keypad and display backlight will illuminate when a key is pressed or a call is received. Select "IN-RECEIVING" to have the dial buttons and backlight illuminate only when a call is received.	☐ **ON**	21
			☐ IN-RECEIVING	
			☐ OFF	
	BACKLIGHT TIME	Select how many seconds the keypad and display backlight will remain illuminated.	☐ **5 s**	22
			☐ 10 s	
			☐ 15 s	
			☐ 20 s	
			☐ 25 s	
			☐ 30 s	
	BACKLIGHT COLOR	Select a backlight color for the display when in standby mode.	☐ ORANGE	23
			☐ **GREEN**	

* The default setting is shown here in gray.

Main Item	Sub Item	Description	Setting*	Setting no.
DISPLAY SETTING	LANGUAGE	Select which language your PS will display. When set to AUTO, the language settings of the Business Telephone System will be used.	☐ **AUTO**	24
			☐ ENGLISH	
			☐ ESPANOL	
			☐ FRANCAIS	
	STANDBY DISPLAY	Select whether the PS will show its extension number and/or the system number on the display when in standby mode. You can also choose to display neither.	☐ **SYS-NO.& EXTN** (PBX no. and extension no.)	25
			☐ SYS-NO. (PBX no.)	
			☐ EXTN (Extension no.)	
			☐ OFF	
	DATE/TIME DISPLY	Select the format for the date shown on the display in standby mode.	☐ **DATE-MM/DD 12H**	26
			☐ DATE-MM/DD 24H	
			☐ DATE-MM/DD/YY	
			☐ DATE-DD/MM 12H	
			☐ DATE-DD/MM 24H	
			☐ DATE-DD/MM/YY	
	LCD CONTRAST	Select one of 12 levels of contrast for the display.	☐ LEVEL _	27
			☐ **LEVEL 6**	

* The default setting is shown here in gray.

Main Item	Sub Item	Description	Setting*1	Setting no.
DISPLAY SETTING	CALLER ID DISPLY	Select which caller information is displayed. Either the information stored in the system, or the information stored in the PS dialing directory can be displayed.	☐ **PBX SETTING**	**28**
			☐ PS Dialing DIRECTORY	
BEEP SETTING	KEY TONE	Turn the key tone on or off.	☐ **ON**	**31**
			☐ OFF	
	RANGE WARNING	Turn the range warning alarm on or off.	☐ **ON**	**32**
			☐ OFF	
SECURITY SETTING	DIRECTORY LOCK	Select whether to lock the PS dialing directory, Incoming Call Log, Incoming Call Log Group, and Outgoing Call Log, or not. If you have not enabled PS PASSWORD (setting number **42**), you will be asked to set a password here when setting the lock to ON. In this case, PS PASSWORD is automatically set to ENABLE, using the password you entered here.*2	☐ ON	**41**
			☐ **OFF**	
	PS PASSWORD	Select whether to password protect your DIRECTORY LOCK, MEMORY CLEAR, and ALL PS-BOOK DEL settings.*2 When disabling this setting, DIRECTORY LOCK (see above) is automatically turned off.	☐ ENABLE	**42**
			☐ **DISABLE**	

*1 The default setting is shown here in gray.

*2 Once you have set a password, the PS cannot reveal it to you. Write down your password and keep it somewhere safe.

Main Item	Sub Item	Description	Setting*1	Setting no.
SECURITY SETTING	MEMORY CLEAR	Select YES to return the following to their default settings: -ANSWER SETTING (except CALL GROUP) -DISPLAY SETTING -BEEP SETTING -SECURITY SETTING (except PS PASSWORD, MEMORY CLEAR, ALL PS-BOOK DEL) -Ringer/Receiver Volume	☐ NO ☐ YES	43
	ALL PS-BOOK DEL	Select YES to delete all items stored in the PS dialing directory.	☐ NO ☐ YES	44
SYSTEM SETTING	REGISTRATION	Consult your dealer for details.		51
	DELETE SYSTEM	You can delete the stored system in the PS. Consult your dealer for details.	☐ SYSTEM 1-4 ☐ NO ☐ YES	52
	SYSTEM LOCK	Select ENABLE to password protect the settings under SYSTEM SETTING. Note: this password is not the same as the one set under PS PASSWORD.	☐ ENABLE ☐ **DISABLE**	53
	ACCESS SYSTEM	Select which system the PS will access, if registered to more than one Business Telephone System.*2	☐ **AUTO** ☐ SYSTEM 1-4*2	54
	CHANGE PIN	Before registering your PS with a Business Telephone System, enter the system's PIN here. Once you have registered the PS with a system, this PIN can be changed so that the PS can be registered to an additional system.	☐ PIN no.	55
	TRUNK ACCESS CD	Enter the trunk access code (line access number) that matches the settings of your Business Telephone System.	☐ **9** ☐ **8XX***3 ☐ NONE	56

*1 The default setting is shown here in gray.
*2 Only systems to which the PS is registered are displayed.
*3 XX is identical to the CO line group no. and 8XX represents any 3-digit code starting with "8".

Main Item	Sub Item	Description	Setting*1	Setting no.
KEY EDIT	KEY ASSIGN	You can change the key menu assignment. **To edit:** 1. Press ◈ to select the key to change. 2. Press **S1** (CHNG). 3. Press ◈ to select the key: INTERCOM PAUSE TRANSFER HOLD Fwd/DND Both MESSAGE FLASH(RECALL) AUTO ANSWER CONFERENCE F-CO NONE 4. Press **S1** (SEL).	**1 INTERCOM** **2 CONFERENCE** **3 FLASH (RECALL)** **4 MESSAGE** **5 Fwd/DND Both** **6 AUTO ANSWER** **7 F-CO** **8 HOLD**	**61**
	FCO LABEL EDIT	You can edit the F-CO label. **To edit:** 1. Press ◈ to select the desired system or enter the system number (1-4).*2 2. Press **S1** (SEL). 3. Press ◈ to select the desired F-CO key or enter the F-CO number (0-9, ✱, #). 4. Press **S1** (CHNG). 5. Edit the label (max. 13 characters). 6. Press **S1** (ENTR).		**62**

*1 The default setting is shown here in gray.
*2 Only systems to which the PS is registered are displayed.

Troubleshooting

Troubleshooting for Portable Station

Problem	Description and Solution
The PS does not work.	• **The battery is drained.** → Charge the battery fully. (See “Charging” on page 5.) • **The PS has been canceled or the PS has not been registered.** → Consult your dealer. • **The power is OFF.** → Turn it ON. (See “Power On/Off” on page 7.)
The PS does not ring.	• **Ringer volume is set to “**VIBRATION ON/RINGER OFF**”, “**MEETING MODE**” or “**VIBRATION OFF/RINGER OFF**”.** → Set to ring by pressing ⊛. (See “Ringer Volume Adjustment” on page 13.)
You cannot make/ receive a call.	• **The PS is out of range or the Cell Station (CS) is busy.** → Move closer to the CS or try again later. • **The radio channel is busy or a radio communication error occurred.** → Try again later.
You cannot dial.	• **The number which you dialed is restricted by the Business Telephone System.** → Consult your dealer. • **The key lock mode is set.** → To cancel the mode, depress MENU for about 2 seconds. (See “Locking the Keypads” on page 7.) • **The radio channel is busy or a radio communication error occurred.** → Try again later.
Noise is frequently caused.	→ Set the PS and CS away from other electrical appliances. → Move closer to the CS.
“CS BUSY” is displayed.	• **The Cell Station is busy.** → Try again later.
“NEED REPAIR 1(-3)” is displayed.	→ Consult your dealer.
“PS Not Connected” is displayed.	• **The called PS is out of range or the PS is power off.** → Wait until the called PS moves closer to the CS, and try again.

Problem	Description and Solution
“NO SERVICE” is displayed.	• **The PS is out of range.** → Move closer to the CS.
The alarm sounds after pressing the Redial button.	• **The Call Log contains no entries.**
The PS stops working during operation.	→ Turn the power OFF and ON. Then try again. (See “Power On/Off” on page 7.) → Re-insert the battery and try again. (See “Setting Up” on page 5.)
The display does not show a strong radio signal “ ” even though you are near the CS.	• **Obstacles (such as walls or partitions) are interfering with the radio waves sent between the PS and the CS.** • **The nearest CS may be occupied, and as a result the PS may be linked to a CS that is further away.** • **In general, the PS can be used when signal strength is “ ” or higher.**
The alarm sounds during a conversation while receiving a weak radio signal “ ”.	• **The radio signal is weak.** → Move closer to the CS.

Battery Information

After your Panasonic battery is fully charged [at 25 °C (77 °F)]:

Operation	Approx. battery charge
While in use (Talk)	Up to about 8 hours
While not in use (Stand-by)	Up to about 120 hours

- Battery charge may be shortened depending on usage conditions and ambient temperature.
- The battery cannot be overcharged.
- The battery will drain even while the unit is “OFF”.
- The PS can receive calls while charging.
- Battery consumption increases when the PS is used out of range. If “ Y ” flashes, power off the PS.

Low Battery Warning

The battery needs to be charged in the following situations:

- “ ▭ ” flashes or the alarm sounds every five seconds*.
- When “CHARGE BATTERY” is displayed, charge your PS for 6 hours. When “CHARGE BATTERY” is displayed, the PS cannot be operated.

* If the low battery warning occurs during a conversation, you can continue for another minute, and then the call will be disconnected automatically.

Replacing the Batteries

If “ ▭ ” flashes after a few telephone calls even when the batteries have been fully charged, it is time to replace the batteries with new ones.

Before replacing the batteries, turn the power off to prevent memory loss. Please charge the new batteries for 6 hours.

Not following this procedure will result in improper Battery Strength metering.

- Please order Panasonic battery with service part No. N4HUGLB00001 to replace.

CAUTION:

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type of battery recommended by the manufacturer.
Dispose of used batteries according to the manufacturer’s instructions.
The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your office, consult your dealer or local power company. The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.
7. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
8. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
9. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
   A. When the power supply cord or plug is damaged or frayed.
   B. If liquid has been spilled into the unit.
   C. If the unit has been exposed to water.
   D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
   E. If the unit has been dropped or physically damaged.
   F. If the unit exhibits a distinct change in performance.
10. Avoid using a telephone other than cordless type during an electrical storm. There may be a remote risk of an electric shock from lightning.
11. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the power cord and batteries indicated in this manual.
2. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
6. Danger of explosion if battery is incorrectly replaced.
   Replace only with the same or equivalence type recommended by the manufacturer.

Important Information

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

WARNING:
TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

Privacy of communications may not be ensured when using this phone.

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contain no metal and that position the device a minimum of 1.5 cm (0.6 inches) from the body.
Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

NOTE:
This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This device may not cause harmful interference, and must accept any interference received including interference that may cause undesired operation.
This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the device and receiver.
— Connect the device into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Some wireless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the wireless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the wireless telephone further away from the TV or VCR. This will often reduce or eliminate interference.

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances.

CAUTION:

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

The software contained in this equipment to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

Environment — do not place the unit in rooms where the temperature is less than 5 °C (41 °F) or greater than 40 °C (104 °F).
Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.

Medical — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2,401 MHz to 2,480 MHz and emits 0.40 watts of RF [radio frequency] power.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using unit that could be sensitive to external RF (radio frequency) energy.

Routine care — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.

Hearing Aid Compatibility

This telephone provides magnetic coupling for hearing aids.

For Product Service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-211-PANA (7262) for the location of an authorized servicenter.
- Panasonic's e-mail address for customer inquiries:
  consumerproducts@panasonic.com
  for customers in the USA or Puerto Rico ONLY

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

_____

_____

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed on the back cover or to executive or regional sales offices. These locations do not repair anything.

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono sin cordón fue elaborado para su uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir una violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

For your future reference

SERIAL NO. _____
(found inside the battery compartment)

DATE OF PURCHASE_____

NAME OF DEALER _____

DEALER'S ADDRESS_____

_____

_____

_____

DEALER'S TEL. NO. _____

Panasonic Consumer Electronics Company
Division of Panasonic Corporation of North America
One Panasonic Way
Secaucus, NJ 07094

Panasonic Puerto Rico, Inc.
Ave. 65 de Infantería, Km.9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

http://www.panasonic.com/csd

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